

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Derek Stettner and Mr. Ivan Kirchev on July 28, 11 and 8/2/11.

3. Claims 1 and 11 are amended as follows:

1. (Currently Amended) A system for implementing multimedia calls across a private network boundary, comprising a public network and at least one private network, characterized in that the system comprises:

at least one media gateway for connecting with multimedia terminals of various protocols;

at least one boundary gateway for connecting the private network and the public network, and performing the translation of a private network address and a public network address, wherein each boundary gateway is provided with a unique subnetwork ID to correspond to the private network connected therewith; and the boundary gateway is used for receiving the signaling message from a media gateway connected therewith, establishing a signaling tunnel from the boundary gateway to the call controller according to its own subnetwork ID, and sending the signaling message to the call controller through the signaling tunnel;

a call controller for establishing calls and controlling service logics, in which is recorded the correspondence relationship information of all said boundary gateways and the subnetwork IDs;

wherein the call controller processes the call concerning a private network according to the subnetwork ID information[.], and wherein

the media gateway initiates the call and sends the call number to the call controller.

the call controller, after receiving the call number, analyzes the call number, and determines the boundary gateway connected with the media gateway and the called side boundary gateway.

the call controller sends a command request to establish a media channel to the calling side boundary gateway and the called side boundary gateway respectively according to the subnetwork IDs of the calling side boundary gateway and the called side boundary gateway.

the call controller receives the information of the media ports allocated and returned by the calling side boundary gateway and the called side boundary gateway respectively, and notifies the information of the media ports to the opposite side boundary gateways respectively.

the calling side boundary gateway, after receiving the notification of the media port information of the called side boundary gateway, establishes a media channel from the boundary gateway to the called side boundary gateway.

the media gateway having initiated the call transmits the media traffic through the established media channel, and

after the media gateway finishes transmitting the media traffic in the media channel, removes the media channel automatically.

11. (Currently amended) A method for implementing multimedia calls in a system containing a public network and private networks, the system comprising:

at least one media gateway for connecting with multimedia terminals of various protocols;

at least one boundary gateway for connecting the private networks and the public network, and performing the translation between a private network address and a public network address;

a call controller for establishing calls and controlling service logics, in which is recorded the correspondence relationship information of all said boundary gateways and the subnetwork IDs;

characterized in that the method comprises:

providing each boundary gateway with a unique subnetwork ID to correspond to the private network connected therewith; and

processing a multimedia call according to the subnetwork ID of the boundary gateway, which comprises:

the media gateway sending the signaling message of a multimedia terminal to the call controller to the boundary gateway connected with the media gateway; and

the boundary gateway, after receiving the signaling message, establishing a signaling tunnel from the boundary gateway to the call controller according to its own subnetwork ID, and sending the signaling message through the signaling tunnel to the call controller[.];

the media gateway initiating the call, sending the call number to the call controller;

the call controller, after receiving the call number, analyzing the call number, and determining the boundary gateway connected with the media gateway and the called side boundary gateway;

the call controller sending a command request to establish a media channel to the calling side boundary gateway and the called side boundary gateway respectively according to the subnetwork IDs of the calling side boundary gateway and the called side boundary gateway;

the call controller receiving the information of the media ports allocated and returned by the calling side boundary gateway and the called side boundary gateway respectively, and notifying the information of the media ports to the opposite side boundary gateways respectively;

the calling side boundary gateway, after receiving the notification of the media port information of the called side boundary gateway, establishing a media channel from the boundary gateway to the called side boundary gateway;

the media gateway having initiated the call transmitting the media traffic through the established media channel; and

after the media gateway finishes transmitting the media traffic in the media channel, removing the media channel automatically.

4. Claim 20 has been cancelled.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The prior arts of record fail to teach, or render obvious, alone or in combination, a system for implementing multimedia calls across a private network boundary, comprising a public network and at least one private network wherein each boundary gateway is provided with a unique subnetwork ID to correspond to the private network connected therewith, and wherein the boundary gateway is for receiving the signaling message from a media gateway according to its unique subnetwork ID and furthermore, and a call controller sending a command request to establish a media channel to the calling side boundary gateway and the called side boundary gateway respectively according to the subnetwork IDs of the calling side boundary gateway and the called side boundary gateway and the call controller receiving the information of the media ports allocated and returned by the calling side boundary gateway and the called side boundary gateway respectively, and notifying the information of the media ports to the opposite side boundary gateways respectively; and furthermore, the media channel is automatically removed after the media gateway finishes the transmission.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phung-Hoang J. Nguyen whose telephone number is (571)270-1949. The examiner can normally be reached on 7:30 AM EST - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curt Kuntz can be reached on 571-272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 2614

Page 8

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